

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-9. (Canceled)

10. (New) A high-pressure pump for a fuel injection system of an internal combustion engine, comprising

a drive shaft (12),

at least one pump element (14), which has a pump piston (20) driven in a reciprocating motion by the drive shaft (12),

a ring (18) rotatably supported on a portion (16) of the drive shaft (12) disposed eccentrically to the pivot axis (13) of the drive shaft, on which ring the pump piston (20) is braced via a support element (24),

many microscope indentations (42) formed in the ring (18) and/or the support element (24), at least in their contact region; and

a solid lubricant film (40) applied to the ring (18) and/or to the support element (24), at least in their contact region.

11. (New) The high-pressure pump of claim 10, wherein the microscopic indentations (42) have a depth of approximately 2 to 30 μm and/or a width of approximately 15 to 30 μm and/or a spacing from one another of approximately 30 to 150 μm .

12. **(New)** The high-pressure pump of claim 10, wherein the microscopic indentations (42) are embodied in the form of dimples.

13. **(New)** The high-pressure pump of claim 11, wherein the microscopic indentations (42) are embodied in the form of dimples.

14. **(New)** The high-pressure pump of claim 10, wherein the microscopic indentations (42) are embodied in the form of grooves.

15. **(New)** The high-pressure pump of claim 11, wherein the microscopic indentations (42) are embodied in the form of grooves.

16. **(New)** The high-pressure pump of claim 14, wherein the grooves intersect.

17. **(New)** The high-pressure pump of claim 15, wherein the grooves intersect.

18. **(New)** The high-pressure pump of claim 14, wherein the grooves are embodied at least approximately in the shape of segments of a circle.

19. **(New)** The high-pressure pump of claim 15, wherein the grooves are embodied at least approximately in the shape of segments of a circle.

20. **(New)** The high-pressure pump of claim 10, wherein the solid lubricant film (40) contains polytetrafluoroethylene and/or graphite and/or molybdenum disulfide.

21. **(New)** The high-pressure pump of claim 11, wherein the solid lubricant film (40) contains polytetrafluoroethylene and/or graphite and/or molybdenum disulfide.
22. **(New)** The high-pressure pump of claim 12, wherein the solid lubricant film (40) contains polytetrafluoroethylene and/or graphite and/or molybdenum disulfide.
23. **(New)** The high-pressure pump of claim 14, wherein the solid lubricant film (40) contains polytetrafluoroethylene and/or graphite and/or molybdenum disulfide.
24. **(New)** The high-pressure pump of claim 10, wherein the solid lubricant film (40) has a binder material, in which solid lubricant particles are embedded, distributed uniformly.
25. **(New)** The high-pressure pump of claim 11, wherein the solid lubricant film (40) has a binder material, in which solid lubricant particles are embedded, distributed uniformly.
26. **(New)** The high-pressure pump of claim 12, wherein the solid lubricant film (40) has a binder material, in which solid lubricant particles are embedded, distributed uniformly.
27. **(New)** The high-pressure pump of claim 14, wherein the solid lubricant film (40) has a binder material, in which solid lubricant particles are embedded, distributed uniformly.
28. **(New)** The high-pressure pump of claim 10, wherein an adhesion-promoting intermediate layer (44) is disposed between the surface of the ring (18) and/or of the support element (24) and the solid lubricant film (40).

29. **(New)** The high-pressure pump of claim 11, wherein an adhesion-promoting intermediate layer (44) is disposed between the surface of the ring (18) and/or of the support element (24) and the solid lubricant film (40).

30. **(New)** The high-pressure pump of claim 12, wherein an adhesion-promoting intermediate layer (44) is disposed between the surface of the ring (18) and/or of the support element (24) and the solid lubricant film (40).